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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,879	11/26/2003	Harold Theodore Devor	P-6216-US	6009
49444 7590 06/13/2007 PEARL COHEN ZEDEK LATZER, LLP 1500 BROADWAY, 12TH FLOOR			EXAMINER	
			FENNEMA, ROBERT E	
NEW YORK, NY 10036			ART UNIT	PAPER NUMBER
			2183	
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			MAIL DATE	DELIVERY MODE
			06/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) DEVOR ET AL.							
### Claim(s)		Application No.	Applicant(s)				
Robert E. Fennema 2183 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. HIND period for reply is specified above, the maximum statutory period will apply and will expire SN (8) MONTHS from the mainst auto will be stated to the specified above, the maximum statutory period will apply and will expire SN (8) MONTHS from the mainst auto will be stated to the specified above. The maximum statutory period will apply and will expire SN (8) MONTHS from the mainst auto the SN (8) MONTHS from the mainst auto the specified in better the specified in specified above, the mainst gate of this communication, even if timely filed, any reduce any seaton application is FINAL. 2b) This action is final. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Queyle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) (3.9.9.11-17.19-21 and 23-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) (3.9.9.11-17.19-21 and 23-28 is/are rejected. 7) Claim(s) (3.9.9.11-17.19-21 and 23-28 is/are rejected. 8) Claim(s) (3.9.9.11-17.19-21 and 23-28 is/are rejected to by the Examiner. 10) The drawing(s) filed on (3.6.9.11-11.19-11.19-11.19-11.19-11.19-11.19-11.19-11.19-11.19-11.19-11.19-11.19-11.19-11.19-11.19-11		10/721,879	DEVOR ET AL.				
Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions (time may be evalable under the provision of 37 CFR 1.136), in no event, however, may a realy bit stimely field after SIX (6) MONTHS from the realizing date of this communication of 37 CFR 1.136), in no event, however, may a realy bit stimely field after SIX (6) MONTHS from the mailing date of this communication of 37 CFR 1.136), in no event, however, may a realy bit stimely field after SIX (6) MONTHS from the realizing date of this communication, will apply and will expire SIX (6) MONTHS from the realizing date of this communication, even if timely filled, may reduce any seared pattern time adjustment. See 37 CFR 1.734(s). Status 1) ② Responsive to communication(s) filled on 20 March 2007. 2a) ② This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ② Claim(s) 1,3-9,11-17,19-21 and 23-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are objected to by the Examiner. 6) □ Claim(s) is/are objected to by the Examiner. 7) □ The drawing(s) filled on is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filled on is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 11 □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * C) □ None of: 11 □ Certified copies of the prior	Office Action Summary	Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. ■ Extensions of time may be available under the provisions of 37 OFR 1.136(a). In or event, however, may a reply be timely filled. ■ Extension of time may be available under the provisions of 37 OFR 1.136(a). In or event, however, may a reply be timely filled. ■ If NO period for reply is specified above, the maximus talknoy period will apply and will easily Six (§) MONTHS from the mailing date of this communication. ■ Fillure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 113). Any twoly received by the fillow entired such that the mailing date of this communication. ■ Fillure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 113). Any twoly received by the fillow entired plants term adjustment. Set 97 OFR 1.179(b). ■ Responsive to communication(s) filled on 20 March 2007. ■ Paper Note this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. ■ Disposition of Claims ■ Claim(s) 1,3-9.11-17.19-21 and 23-28 is/are pending in the application. ■ Claim(s) 1,3-9.11-17.19-21 and 23-28 is/are pending in the application. ■ Claim(s) 1,3-9.11-17.19-21 and 23-28 is/are rejected. ■ Claim(s) 1,3-9.11-17.19-21 and 23-28 is/are r		Robert E. Fennema	2183				
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provides or 37 CFR 1.78(a). In or evert, however, may a reply be timely filed after \$1X (6) MONTHS from the mailing date of this communication. If NO period for reply is spacified above, the misminum stution y period will apply and will expire \$1X (6) MONTHS from the mailing date of this communication. If NO period for reply is spacified above, the misminum stution y period will apply and will expire \$1X (6) MONTHS from the mailing date of this communication. Any reply received by the Office later than three months after the mailing date of this communication, even if simely filed, may reduce any seared patent term adjustment. Sea 37 CFR 1.704(b). Status 1) ☑ Responsive to communication(s) filed on 20 March 2007. 2a) ☑ This action is FINAL. 2b) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☑ Claim(s) 1,3-9.11-17,19-21 and 23-28 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1,3-9.11-17,19-21 and 23-28 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1,3-9.11-17,19-21 and 23-28 is/are rejected. 7) ☐ Claim(s) is/are objected to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. Application Papers 9) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Application Papers 10 ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The cath or declaration is obj		ears on the cover sheet with the c	orrespondence address				
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DETAILED ACTION

1. Claims 1, 3-9, 11-17, 19-21, and 23-28 are pending. Claims 1, 3-4, 8-9, 11, 15, 17, 19, 21, and 23-24 amended as per Applicant's request. Claims 2, 10, 18, and 22 cancelled as per Applicant's request.

Claim Objections

Claim 11 is objected to for depending upon itself. Examiner has assumed that
 Claim 11 depends upon Claim 9 for the sake of this Office Action.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 3-7, 9, 11-15, 21, 23-26 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Hohensee et al. (USPN 6,064,815, herein Hohensee).
- 5. As per Claim 1, Hohensee teaches: A method comprising:

During translation of a code block from a first format suitable for a first computing platform to a second format suitable for a second computing platform (Column 1, Lines 45-47 and Column 1, Line 62-Column 2, Line 4), performing instrumentation of said code block (Column 3, Lines 4-9. The exceptional condition detector is an instrument

(as defined by The Dictionary of Computers, Information Processing & Telecommunications, where instrumentation is taken to mean "what is required to measure a complex activity, such as the performance level of a computer system, whether hardware or software", where a detector measures the misaligned data access in this case), and does the detecting of the misalignment) to detect whether execution of said code block results in the misaligned data access prior to execution of said code block (Column 3, Lines 4-9 shows the detector detecting an exceptional condition, and Column 2, Lines 61-67 show the exception to be caused by a misaligned memory reference, and further, Column 3, Lines 15-21 show that the modified code is inserted

modifying said code block according to said misaligned data access (Column 8, Lines 58-66, additional code is added to the instruction stream to handle the misalignment).

and run in place of the original code block); and

- 6. As per Claim 3, Hohensee teaches: The method of claim 1, wherein detecting comprises performing instrumentation of at least one instruction in said code block to detect a location of an instruction whose execution results in the misaligned data access (Column 3, Lines 15-17. In order to substitute code for an instruction, the location would necessarily have to have been detected).
- 7. As per Claim 4, Hohensee teaches: The method of claim 1, wherein performing instrumentation of said code block comprises performing instrumentation of at least one

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instruction in said code block to detect a location of an instruction whose execution results in the misaligned data access (Column 3, Lines 15-17. In order to substitute code for an instruction, the location would necessarily have to have been detected).

- 8. As per Claim 5, Hohensee teaches: The method of claim 1, wherein modifying comprises adding to said code block an instruction to branch an execution of said code block to a code sequence whose execution handles the misaligned data access (Column 12, Lines 23-30. A branch to a Fixup code block is called to handle the misalignment).
- 9. As per Claim 6, Hohensee teaches: The method of claim 1, wherein modifying comprises modifying said code block to handle misaligned data access in a subsequent execution of said code block (Column 12, Lines 23-30. A branch to a Fixup code block is called to handle the misalignment).
- 10. As per Claim 7, Hohensee teaches: The method of claim 1, further comprising translating said code block from said first format to said second format (Column 1, Line 62 Column 2, Line 4).
- 11. As per Claim 9, Hohensee teaches: An apparatus comprising:

a processor to perform instrumentation (Column 3, Lines 4-9. The exceptional condition detector is an instrument, and does the detecting of the misalignment), during

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translation of a code block from a first format suitable for a first computing platform to a second format suitable for a second computing platform (Column 1, Lines 45-47 and Column 1, Line 62-Column 2, Line 4), of said code block to detect whether execution of said code block results in misaligned data access prior to execution (Column 3, Lines 4-9 shows the detector detecting an exceptional condition, and Column 2, Lines 61-67 show the exception to be caused by a misaligned memory reference, and further, Column 3, Lines 15-21 show that the modified code is inserted and run in place of the original code block), of said code block, and

to modify said code block according to said misaligned data access (Column 8, Lines 58-66, additional code is added to the instruction stream to handle the misalignment).

- 12. As per Claim 11, Hohensee teaches: The apparatus of claim 9, wherein the processor is able to perform instrumentation of at least one instruction in said code block to detect a location of an instruction whose execution results in the misaligned data access (Column 3, Lines 15-17. In order to substitute code for an instruction, the location would necessarily have to have been detected).
- 13. As per Claim 12, Hohensee teaches: The apparatus of claim 9, wherein the processor is able to perform instrumentation of at least one instruction in said code block to detect a location of an instruction whose execution results in the misaligned data access (Column 3, Lines 15-17. In order to substitute code for an instruction, the

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location would necessarily have to have been detected).

- 14. As per Claim 13, Hohensee teaches: The apparatus of claim 9, wherein the processor is able to add to said code block an instruction to branch an execution of said code block to a code sequence whose execution handles the misaligned data access (Column 12, Lines 23-30. A branch to a Fixup code block is called to handle the misalignment).
- 15. As per Claim 14, Hohensee teaches: The apparatus of claim 9, wherein the processor is able to modify said code block to handle misaligned data access in a subsequent execution of said code block (Column 12, Lines 23-30. A branch to a Fixup code block is called to handle the misalignment).
- 16. As per Claim 15, Hohensee teaches: The apparatus of claim 9, wherein the processor is able to, before performing instrumentation, translate said code block from said first format to said second format (Column 1, Line 62 Column 2, Line 4).
- 17. As per Claim 21, Hohensee teaches: A machine-readable medium having stored thereon a set of instructions that, if executed by a machine, cause the machine to perform a method comprising:

during translation of a code block from a first format suitable for a first computing platform to a second format suitable for a second computing platform (Column 1, Lines

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45-47 and Column 1, Line 62-Column 2, Line 4) performing instrumentation of said code block (Column 3, Lines 4-9. The exceptional condition detector is an instrument, and does the detecting of the misalignment) to detect whether execution of said code block results in the misaligned data access prior to execution of said code block (Column 3, Lines 4-9 shows the detector detecting an exceptional condition, and Column 2, Lines 61-67 show the exception to be caused by a misaligned memory reference, and further, Column 3, Lines 15-21 show that the modified code is inserted and run in place of the original code block); and

modifying said code block according to said misaligned data access (Column 8, Lines 58-66, additional code is added to the instruction stream to handle the misalignment).

- As per Claim 23, Hohensee teaches: The machine-readable medium of claim 21, 18. wherein the instructions that result in detecting result in performing instrumentation of at least one instruction in said code block to detect a location of an instruction whose execution results in the misaligned data access (Column 3, Lines 15-17. In order to substitute code for an instruction, the location would necessarily have to have been detected).
- 19. As per Claim 24, Hohensee teaches: The machine-readable medium of claim 21, wherein the instructions that result in performing instrumentation result in performing instrumentation of at least one instruction in said code block to detect a location of an

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instruction whose execution results in the misaligned data access (Column 3, Lines 15-17. In order to substitute code for an instruction, the location would necessarily have to have been detected).

- 20. As per Claim 25, Hohensee teaches: The machine-readable medium of claim 21, wherein the instructions comprise at least part of a translator (Column 1, Lines 45-48 disclose a translator).
- 21. As per Claim 26, Hohensee teaches: The machine-readable medium of claim 21, wherein the instructions comprise at least part of an execution layer (The instructions run throughout Hohensee's invention are executed, which necessitate them being in the execution layer).
- 22. As per Claim 28, Hohensee teaches: The machine-readable medium of claim 21, wherein the instructions comprise at least part of a compiler (Column 1, Lines 45-48, where a translator is a compiler).

Claim Rejections - 35 USC § 103

23. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 24. Claims 8, 16-17, and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hohensee.
- 25. As per Claim 8, Hohensee teaches the method of claim 1, but fails to teach:
 wherein performing instrumentation of said code block comprises performing
 instrumentation of said code block to detect whether execution of said code block
 results in the a misaligned data access prior to execution of a code block translated
 from a format suitable for a 32-bit based computing platform to a format suitable for a
 64-bit based computing platform.

Hohensee teaches that a host processor, in an execution environment, may emulate operations performed by an emulated microprocessor, but not th sizes of the processor and the emulated processor. The Examiner is taking official notice that it is well known in the art that most computer processors operate on a number of bits that are a power of 2, for example, 8, 16, 32, 64, and 128, and that a primary difference between computer processors (of the same or similar instruction set) are a difference in the bit-size of the processors. *In re Rose*, 220 F.2d 459, 463, 105 USPQ 237, 240 (CCPA 1955) teaches that it is within the skill of one of ordinary skill in the art to change size, so whether the emulation required was from 8 to 16 bits, 16 to 32 bits, or 32 to 64 bits is irrelevant to one of ordinary skill in the art. Therefore, one of ordinary skill in the art would have been able to make use of Hohensees invention, and apply it to a 64-bit processor running a 32-bit program.

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26. As per Claim 16, Hohensee teaches the apparatus of claim 9, but fails to teach: wherein the first computing platform is a 32-bit based computing platform and the second computer architecture is a 64-bit based computing platform. Hohensee teaches that a host processor, in an execution environment, may emulate operations performed by an emulated microprocessor, but not the sizes of the processor and the emulated processor. The Examiner is taking official notice that it is well known in the art that most computer processors operate on a number of bits that are a power of 2, for example, 8, 16, 32, 64, and 128, and that a primary difference between computer processors (of the same or similar instruction set) are a difference in the bit-size of the processors. *In re Rose*, 220 F.2d 459, 463, 105 USPQ 237, 240 (CCPA 1955) teaches that it is within the skill of one of ordinary skill in the art to change size, so whether the emulation required was from 8 to 16 bits, 16 to 32 bits, or 32 to 64 bits is irrelevant to one of ordinary skill in the art. Therefore, one of ordinary skill in the art would have been able to make use of Hohensee's invention, and apply it to a 64-bit processor running a 32-bit program.

27. As per Claim 17, Hohensee teaches: A computing platform comprising:

a processor to perform instrumentation (Column 3, Lines 4-9. The exceptional condition detector is an instrument, and does the detecting of the misalignment), during translation of a code block from a first format suitable for a first computing platform to a second format suitable for a second computing platform (Column 1, Lines 45-47 and Column 1, Line 62-Column 2, Line 4), of said code block to detect whether execution of said code block results in misaligned data access prior to execution (Column 3, Lines 4-

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9 shows the detector detecting an exceptional condition, and Column 2, Lines 61-67 show the exception to be caused by a misaligned memory reference, and further, Column 3, Lines 15-21 show that the modified code is inserted and run in place of the original code block) of said code block, and

to modify said code block according to said misaligned data access (Column 8, Lines 58-66, additional code is added to the instruction stream to handle the misalignment); and

a dynamic random access memory operably associated with said processor to store at least a portion of said code block (Figure 1 discloses a memory, but Hohensee does not explicitly teach the memory being a dynamic random access memory (herein DRAM). However, the Examiner is taking official notice that using a DRAM for computer memory is well known in the art, due to its cheap cost and widespread use, which would have motivated one of ordinary skill in the art to utilize a DRAM in Hohensee's invention).

28. As per Claim 19, Hohensee teaches: The apparatus of claim 17, wherein the processor is able to perform instrumentation of at least one instruction in said code block to detect a location of an instruction whose execution results in the misaligned data access (Column 3, Lines 15-17. In order to substitute code for an instruction, the location would necessarily have to have been detected).

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29. As per Claim 20, Hohensee teaches: The apparatus of claim 17, wherein the

processor is able to perform instrumentation of at least one instruction in said code

block to detect a location of an instruction whose execution results in the misaligned

data access (Column 3, Lines 15-17. In order to substitute code for an instruction, the

location would necessarily have to have been detected).

30. Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Hohensee, in view of Drongowski.

31. As per Claim 27, Hohensee teaches: The machine-readable medium of claim 21,

wherein the instructions comprise at least part of an operating system. While Hohensee

does not explicitly disclose an operating system, it would have been very obvious to one

of ordinary skill in the art to be able to make use of misalignment correction capabilities

on the operating-system level, so that all programs and programmers can make use of

it, as well as the fact that operating systems are extremely common on most computing

systems. Drongowski teaches an example of an operating system (The Alpha Linux)

that makes use of commands to fix alignment problems (Section 2.7), and explains the

problems misalignment can cause. Therefore, it would have been obvious to one of

ordinary skill in the art at the time the invention was made to allow an operating system

to run these instructions and make use of Hohensee's invention.

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Response to Arguments

Applicant's arguments filed 3/20/2007 have been fully considered but they are 32. not persuasive. Applicant has argued that they have chosen to be their own lexicographer, and have provided what they intended to mean by "instrumentation", as opposed to the Examiners interpretation, by stating a line in the specification which reads, "Instrumentation may include, for example, adding one or more instructions ...". However, Examiner notes that this is not a definition, and is only an example, as evidenced by "may include, for example", thus, Examiner cannot read this meaning into the specification, at least not over other definitions for the word which appear to also be valid. If Applicants want this definition of instrumentation in the claims, then the definition must be inserted into the claims, which will then leave no room for doubt to the subject matter being claimed. For example, Examiner believes changing "performing instrumentation of said code block", as stated in claim 1, to "inserting one or more instructions to said code block to detect..", or alternatively, "performing instrumentation through adding instructions to said code block to detect...", both of which will clarify the meaning of instrumentation, and allow Examiner to use Applicant's intended definition, but until then, it is only an example, and not a definition, and as a result Examiner has maintained his rejection, using the definition of instrumentation previously provided.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert E. Fennema whose telephone number is (571) 272-2748. The examiner can normally be reached on Monday-Friday, 8:45-6:15.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Chan can be reached on (571) 272-4162. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Robert E Fennema Examiner Art Unit 2183

RF

EDDIE CHAN

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100